

Product Information

VESTOSINT® 2178 white

Powder for coating systems

VESTOSINT 2178 white is a titanium dioxide filled polyamide 12 fine powder for the use in liquid coating systems. It is used as an additive for instance in coil coating systems to improve abrasion resistance and T-bend test.

For more information we recommend our brochure "VESTOSINT – Fine Powder at its Best".

For further information, please contact our experts in the department Market Development of the High Performance Polymers Business Line.

Powder Information

Property	Test method		Unit	VESTOSINT 2178 white
	international	national		
App. bulk density	ISO 60	DIN EN ISO 60	g/dm ³	≥ 380
Average particle size	d50	Laser diffraction analysis (Sympatec Helos)	µm	approx. 20

Density, water absorption, thermal, mechanical and electrical properties

Property	Test method		Unit	VESTOSINT 2178 white
	international	national		
Melting point	ISO 3146	DIN EN ISO 3146	°C	184
Density	23 °C ISO 1183	DIN EN ISO 1183	g/cm ³	1.23
Shore hardness D	ISO 868	DIN EN ISO 868		75
Ball indentation hardness	H30 ISO 2039-1	DIN EN ISO 2039-1	N/mm ²	90
Tensile test	ISO 527-1	DIN EN ISO 527-1		
Stress at yield	ISO 527-2	DIN EN ISO 527-2	MPa	43
Strain at yield			%	6
Strain at break			%	> 50
Volume resistivity	IEC 60093	DIN IEC 60093	Ω · m	10 ¹²
Dielectric breakdown voltage	K20/P50 IEC 60243-1	DIN EN 60243-1	kV/mm	90
Water absorption	100 °C, immersion ISO 62	DIN EN ISO 62	%	1.9
Moisture absorption	23 °C, 96 % r. h. 23 °C, 50 % r. h. ISO 62	DIN EN ISO 62	% %	1.3 0.5
Coef. of linear expansion	23 - 55 °C ISO 11359	DIN 53752	10 ⁻⁴ · K ⁻¹	1.09
Thermal conductivity		Referring to DIN 52612	W/m · K	0.23 - 0.29
Specific heat		DIN 53765	J/g · K	2.35
Taber abraser	ASTM D 1242	DIN 53 754	mg/100 turns	14

Pigmentation may affect values.

® = registered trademark

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